

REMARKS

Applicants appreciate the detailed examination evidenced by the Office Action mailed October 24, 2007 ("Office Action"). In response, Applicants have amended Claim 1 and canceled Claims 35-37. Applicants respectfully traverse the rejection of Claims 1-34 as being unpatentable over U.S. Patent No. 7,181,630 to Kadoi et al. ("Kadoi") and, in the case of Claims 12, 23 and 32, in view of U.S. Patent No. 6,320,585 to Engel et al. ("Engel"), because Kadoi and Engel, alone or in combination, do not disclose or suggest the recitations of the claims. Reasons supporting patentability of the claims are discussed in detail below.

Independent Claims 1 and 26 are patentable

Claims 1-11, 13, 14, 26-31, 34, 35 and 36 stand rejected under 35 U.S.C. §102(e) as being anticipated by Kadoi. Office Action, page 2. Applicants have amended Claim 1 to clarify that the segment loading indicators and load segment outputs are on the power supply. Applicants respectfully submit that Kadoi does not disclose or suggest several of the recitations of Claim 1, as amended. For example, Claim 1, as amended, recites, in part:

a plurality of segment loading indicators *on a power supply* and configured to be electrically coupled to respective load segment outputs of the power supply, each of the segment loading indicators operative to provide an indication of a loading of the associated load segment output of the power supply. (*Emphasis added.*)

Applicants have amended Claim 1 to clarify that the segment loading indicators are on the power supply and electrically coupled to the load segment outputs on the power supply.

In rejecting independent Claims 1 and 26, the Office Action states:

Kadoi et al. discloses a plurality of segment loading indicators configured to be electrically coupled to respective load segment outputs of a power supply, each of the loading indicators operative to provide an indication of a loading of the associated load segment output (col. 23, lines 47-68). (*Emphasis added.*)

Office Action, page 2. In contrast with the recitations of Claim 1, Kadoi appears to describe a system of UPS's 1 that may each represent a load segment, the indication of which may be displayed on computers 2, 3, 4, 5, or 10 running an application, such as a UPS group controller program 21. *See, e.g.*, Kadoi, FIG. 1. Regarding indication, Kadoi appears to describe that image data may be displayed on the computer that may be the UPS group

controller. Kadoi, Figure 6, column 10, lines 58-59. The image data may be generated from operating state information "read from the group data base 27." Kadoi, column 16, lines 39-41. "[A]n indicator image file (an indicator image 1g shown in FIG. 6 is contained in the file)" is stored as a simple image file. Kadoi, column 16, lines 31-37. Thus, Kadoi does not disclose or suggest that the image file be used "on the power supply," to provide indication, recited in Claim 1.

In rejecting Claims 1 and 26, the Office Action appears to be referring to Fig. 17 of Kadoi, which shows a detailed data structure of the UPS group management information. Applicants respectfully note that a data structure that may include load segment management information is not "a plurality of segment loading indicators on a power supply and configured to be electrically coupled to respective load segment outputs of the power supply," as recited in Claim 1. For example, segment loading indicators as recited in Claim 1 may provide a user with segment loading indication that is proximate the load segment outputs. By providing proximate segment loading indication, a user seeking to add loads or reconfigure existing loads can use the segment loading indicator on the power supply to avoid adding a load to a load segment that may be fully or heavily loaded already. *See, e.g.*, Specification, pages 3-4. Applicants respectfully submit that management system of UPS's as described in Kadoi neither identifies nor addresses the problems that the recitations of Claim 1 address.

Accordingly, load segment management information stored in a computer or other data storage device cannot be properly interpreted as "a plurality of load segment indicators on a power supply," as recited in Claim 1. Thus, Kadoi does not disclose or suggest "a plurality of load segment indicators on a power supply," as recited in Claim 1. For at least the same reasons, Kadoi does not disclose or suggest the similar recitations in independent Claim 26. For at least these reasons, Applicants respectfully submit that Claims 1 and 26 are patentable over Kadoi.

Independent Claims 17 and 33 are Patentable

Independent Claims 17 and 33 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Kadoi. Office Action, page 4. In the rejection of Claims 17 and 33 the Office Action states:

Kadoi et al. discloses an uninterrupted power supply managing system is described for managing a plurality of small UPS devices, the small UPS devices are connected to power supply routes between wall sockets and load devices (abstract). The small devices obviously are contained in housings having panels with user interface means and operative to generate a voltage at the power output.

Kadoi et al. teaches panels, indicators and panels, but is silent as to a second panel.

It would have been obvious to merely interface, indicators and panels in an UPS to manage the UPS since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japiske, 86 USPQ 70. (*Emphasis added.*)

Office Action, pages 4-5. Applicants respectfully submit that Claim 17 recites a specific structural combination that is neither considered nor addressed by Kadoi. For example, Claim 17 recites:

A UPS comprising:
a housing having first and second panels;
a power output *at the second panel* of the housing;
uninterruptible power supply circuitry supported by the housing and operative to generate a voltage at the power output;
a user interface positioned at the first panel of the housing and operatively associated with the uninterruptible power supply circuitry; and
a loading indicator coupled to the power output and operative to provide a visual indication *at the second panel* of the housing of a loading of the power output. (*Emphasis added.*)

"A loading indicator coupled to the power output and operative to provide a visual indication at the second panel" (where the power output is positioned) may provide a user with segment loading information that is proximate the power output. In this manner, a user seeking to add loads or reconfigure existing loads can use the segment loading indicator on the power supply to avoid adding a load to a load segment that may be fully or heavily loaded already. Since Kadoi neither seeks to nor provides such advantages, any motivation to modify the teachings of Kadoi appear to be gained through hindsight analysis based on Applicants' Specification.

Additionally, in contrast with Claim 17, Kadoi describes "an indicator image file (an indicator image 1g shown in FIG. 6 is contained in the file)" is stored as a simple image file. Kadoi, column 16, lines 31-37. Applicants respectfully submit that an indicator image file generated from data in a database is not a loading indicator that provides an indication at a

panel of the UPS at which the power output is also located. For at least these reasons, Applicants respectfully submit that Claim 17 is patentable over Kadoi.

Independent Claim 33 recites, in part, "providing a visual loading indication for the output on the rear panel." As discussed above regarding Claims 1 and 17, Kadoi does not disclose or suggest loading indicators on a UPS, much less loading indication "for the output on the rear panel" of a UPS, as recited in Claim 33. Accordingly, for at least the same reasons as Claim 17, Claim 33 is patentable over Kadoi.

Claims 35-37 are canceled

Applicants respectfully submit that the rejections of Claims 35-37 are moot since these claims are canceled herein.

The dependent claims are patentable

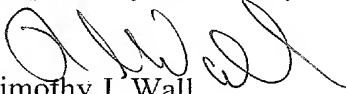
Applicants submit that dependent Claims 2-16, 18-25, 27-32, and 34 are patentable at least by virtue of the patentability of various ones of independent Claims 1, 17, 26, and 33 from which they depend. Consistent with Applicants' discussion above regarding loading indication, various ones of the dependent claims include recitations that identify additional features that are not disclosed by Kadoi. In this regard, various ones of these dependent claims are separately patentable. For example, Claim 3 recites, in part, "at least one of the segment loading indicators is operative to provide an indication of a loading of the associated load segment output with respect to load rating of a circuit protection device that protects the associated load segment output." Applicants respectfully submit that Kadoi does not disclose or suggest using an indicator that includes any reference to a load rating of a circuit protection device. For at least these reasons, Claim 3 is separately patentable over Kadoi.

In re: Robert W. Johnson, Jr. et al.
Serial No.: 10/790,604
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Conclusion

As all of the claims are now in condition for allowance, Applicants respectfully request allowance of the claims and passing of the application to issue in due course. Applicants urge the Examiner to contact Applicants' undersigned representative at (919) 854-1400 to resolve any remaining formal issues.


Respectfully submitted,


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